



SEQUENCE LISTING

<110> Eckert, Randal
Qi, Fengxia
Shi, Wenyan
Anderson, Maxwell H.

<120> ANTI-MICROBIAL TARGETING CHIMERIC PHARMACEUTICAL

<130> 02307k-186431US

<140> US 10/706,391

<141> 2003-11-12

<150> US 09/378,577

<151> 1999-08-20

<150> US 09/910,358

<151> 2001-07-19

<150> US 10/077,624

<151> 2002-02-14

<160> 71

<170> PatentIn version 3.5

<210> 1

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<212> DNA

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<223> DNA encoding histatin 5 fusion to VH SWLA3

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accactcgca cagaggatac tctggtggcg gtggctcggg cggagggtggg tcgggtggcg	180
gcggatccga cgtgaagctt gtggagtctg ggggaggctt agtgaaccct ggagggtccc	240
tgaaactctc ctgtgcagcc tctggattca ctttcagtag ctataccatg tcttgggttc	300
gccagactcc ggagaagagg ctggagtggg tcgcatccat tagtagtggt ggtacttaca	360
cctactatcc agacagtgtg aagggccgat tcaccatctc cagagacaat gccaagaaca	420
ccctgtacct gcaaatgacc agtctgaagt ctgaggacac agccatgtat tactgttcaa	480
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cagtcaccgt ctcttcagct agc	563

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			20					25					30		
Gly	Gly	Ser	Gly	Gly	Gly	Gly	Ser	Asp	Val	Lys	Leu	Val	Glu	Ser	Gly
		35					40					45			
Gly	Gly	Leu	Val	Asn	Pro	Gly	Gly	Ser	Leu	Lys	Leu	Ser	Cys	Ala	Ala
		50				55					60				
Ser	Gly	Phe	Thr	Phe	Ser	Ser	Tyr	Thr	Met	Ser	Trp	Val	Arg	Gln	Thr
65					70				75					80	
Pro	Glu	Lys	Arg	Leu	Glu	Trp	Val	Ala	Ser	Ile	Ser	Ser	Gly	Gly	Thr
				85				90					95		
Tyr	Thr	Tyr	Tyr	Pro	Asp	Ser	Val	Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg
			100					105					110		
Asp	Asn	Ala	Lys	Asn	Thr	Leu	Tyr	Leu	Gln	Met	Thr	Ser	Leu	Lys	Ser
		115					120					125			
Glu	Asp	Thr	Ala	Met	Tyr	Tyr	Cys	Ser	Arg	Asp	Asp	Gly	Ser	Tyr	Gly
	130					135				140					
Ser	Tyr	Tyr	Tyr	Ala	Met	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Ser	Val	Thr
145					150				155						160
Val	Ser	Ser	Ala	Ser											
				165											

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gtggctcggg	cggaggtggg	tcgggtggcg	gcggatccga	cgtgaagctt	gtggagtctg	180
ggggaggctt	agtgaaccct	ggagggctcc	tgaaactctc	ctgtgcagcc	tctggattca	240
ctttcagtag	ctataccatg	tcttggggttc	gccagactcc	ggagaagagg	ctggagtggg	300
tcgcatccat	tagtagtggg	ggtacttaca	cctactatcc	agacagtgtg	aagggccgat	360
tcacqatctc	cagagacaat	gccaagaaca	ccctgtacct	gcaaagacc	agtctgaagt	420

ctgaggacac agccatgtat tactgttcaa gagatgacgg ctcctacggc tcctattact 480

atgctatgga ctactgggggt caaggaacct cagtcaccgt ctcttcagct agc 533

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			20					25					30		
Lys	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Asn	Pro	Gly	Gly	Ser	Leu
		35					40					45			
Lys	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Ser	Tyr	Thr	Met
	50					55				60					
Ser	Trp	Val	Arg	Gln	Thr	Pro	Glu	Lys	Arg	Leu	Glu	Trp	Val	Ala	Ser
65				70					75					80	
Ile	Ser	Ser	Gly	Gly	Thr	Tyr	Thr	Tyr	Tyr	Pro	Asp	Ser	Val	Lys	Gly
			85					90					95		
Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala	Lys	Asn	Thr	Leu	Tyr	Leu	Gln
			100					105					110		
Met	Thr	Ser	Leu	Lys	Ser	Glu	Asp	Thr	Ala	Met	Tyr	Tyr	Cys	Ser	Arg
		115				120					125				
Asp	Asp	Gly	Ser	Tyr	Gly	Ser	Tyr	Tyr	Tyr	Ala	Met	Asp	Tyr	Trp	Gly
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145					150					155					

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<223> histatin 5 Synthesized using sequential PCR techniques

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<220>
<223> dhvar 1 Synthesized using sequential PCR techniques

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Lys Arg Leu Phe Lys Glu Leu Lys Phe Ser Leu Arg Lys Tyr
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<210> 7
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<212> DNA
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ggcggatccg acgtgaagct tgtggagtc 89

<210> 8
<211> 84
<212> DNA
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<223> Synthetic Primer 987

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aagcaccact cgcacagagg atac 84

<210> 9
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<212> DNA
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tccagtgtga tagcc 75

<210> 10
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<212> DNA
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 cggatccgac gtgaagcttg tggagtc 87

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 cgcaagtac 69

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 tgggtcgacw gatggggstg ttgtgctagc tgaggagac 39

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 from PhD-12

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<223> Xaa is Val, Gln or His

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<223> Xaa is Pro or His

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<223> Xaa is Phe or Tyr

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<222> (6)..(6)
<223> Xaa is Lys or His

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<223> Xaa is His or Ala

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<222> (8)..(8)
<223> Xaa is Leu or His

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<223> Xaa is any amino acid

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<223> Xaa is Lys or Arg

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<222> (12)..(12)
<223> Xaa is Pro or Leu

<400> 14

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<210> 15
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Arg Gly Gly Arg Leu Cys Tyr Cys Arg Arg Arg Phe Cys Val Cys Val
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Gly Arg

<210> 16
<211> 18
<212> PRT
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<400> 16

Lys Asn Leu Arg Arg Ile Ile Arg Lys Gly Ile His Ile Ile Lys Lys
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Tyr Gly

<210> 17
<211> 15
<212> PRT
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<223> Linker peptide for PG-1 and N-terminus of VH

<400> 17

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
1 5 10 15

<210> 18
<211> 8
<212> PRT
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<220>
<223> Linker peptide for C-terminus of VH and N-terminus of VL
<400> 18

Gly Gly Gly Ser Gly Gly Gly Ser
1 5

<210> 19
<211> 57
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<223> coding region of protegrin PG-1

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<210> 20
<211> 29
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gggaattccg tggcgggtcgc ctatgctac 29

<210> 21
<211> 44
<212> DNA
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<223> Synthetic Amplification primer VHR2 for PG-1-VH

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agagccgccca cccgaacctc cgcctgaaga gacggtgact gagg 44

<210> 22
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<212> DNA
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<400> 22
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Gln Pro His Pro His Lys Val His Ser Leu Pro Pro
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<210> 33
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Gln Pro Ala Pro Tyr Ile Ser Ser Pro Ser Ala Ser
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Val Arg Leu Pro Leu Trp Leu Pro Ser Leu Asn Glu
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Ala Asn Tyr Phe Leu Pro Pro Val Leu Ser Ser Ser
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Ser His Pro Trp Asn Ala Gln Arg Glu Leu Ser Val
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<210> 37
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<212> PRT
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Ser Val Ser Val Gly Met Arg Pro Met Pro Arg Pro
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<210> 38
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Trp Thr Pro Leu His Pro Ser Thr Asn Arg Pro Pro
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Ser Val Ser Val Gly Met Lys Pro Ser Pro Arg Pro
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Trp Ala Pro Pro Leu Phe Arg Ser Ser Leu Phe Tyr
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His His Gly Trp Thr His His Trp Pro Pro Pro Pro
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Ser Tyr Tyr Ser Leu Pro Pro Ile Phe His Ile Pro
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<223> Xaa is Glu or Asn

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<223> peptide SA2.7 specific for S. aureus

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Phe Ser Tyr Ser Pro Thr Arg Ala Pro Leu Asn Met
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<223> peptide SA2.8 specific for S. aureus

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<400> 48

Ser Xaa Pro Xaa Xaa Met Lys Xaa Ser Xaa Xaa Xaa

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<211> 12
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Val Ser Arg His Gln Ser Trp His Pro His Asp Leu
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<210> 50
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Asp Tyr Xaa Tyr Arg Gly Leu Pro Arg Xaa Glu Thr
1 5 10

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<400> 51

Ser Val Ser Val Gly Met Lys Pro Ser Pro Arg Pro
1 5 10

<210> 52
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<223> peptide DH5.1 specific for E. coli

<400> 52

Lys	His	Leu	Gln	Asn	Arg	Ser	Thr	Gly	Tyr	Glu	Thr
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<211> 12

<212> PRT

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<223> peptide DH5.2 specific for E. coli

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His	Ile	His	Ser	Leu	Ser	Pro	Ser	Lys	Thr	Trp	Pro
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<210> 54

<211> 12

<212> PRT

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<223> peptide DH5.3 specific for E. coli

<400> 54

Thr	Ile	Thr	Pro	Thr	Asp	Ala	Glu	Met	Pro	Phe	Leu
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<210> 55

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<223> peptide DH5.4 specific for E. coli

<400> 55

His	Leu	Leu	Glu	Ser	Gly	Val	Leu	Glu	Arg	Gly	Met
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<210> 56

<211> 12

<212> PRT

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<223> peptide DH5.5 specific for E. coli

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His Asp Arg Tyr His Ile Pro Pro Leu Gln Leu His
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<210> 57

<211> 12

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<223> peptide DH5.6 specific for E. coli

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Val Asn Thr Leu Gln Asn Val Arg His Met Ala Ala
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<210> 58

<211> 12

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<223> peptide DH5.7 specific for E. coli

<400> 58

Ser Asn Tyr Met Lys Leu Arg Ala Val Ser Pro Phe
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<210> 59

<211> 12

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<223> peptide DH5.8 specific for E. coli

<400> 59

Asn Leu Gln Met Pro Tyr Ala Trp Arg Thr Glu Phe
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<210> 60

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<223> peptide DH5.9 specific for E. coli

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Gln Lys Pro Leu Thr Gly Pro His Phe Ser Leu Ile
1 5 10

<210> 61

<211> 12

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<223> Design targeting peptide Cat-1

<400> 61

Lys Lys His Arg Lys His Arg Lys His Arg Lys His
1 5 10

<210> 62

<211> 16

<212> PRT

<213> Artificial sequence

<220>

<223> Design targeting peptide LPSB-1

<400> 62

Arg Gly Leu Arg Arg Leu Gly Arg Arg Gly Leu Arg Arg Leu Gly Arg
1 5 10 15

<210> 63

<211> 13

<212> PRT

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<223> Design targeting peptide Phob-1

<400> 63

Lys Pro Val Leu Pro Val Leu Pro Val Leu Pro Val Leu
1 5 10

<210> 64

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<212> PRT

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<223> Design targeting peptide LPSB-2

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Val Leu Arg Ile Ile Arg Ile Ala Val Leu Arg Ile Ile Arg Ile Ala
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<210> 65

<211> 15

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<223> Design targeting peptide LPTG-1

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Leu Pro Glu Thr Gly Gly Ser Gly Gly Ser Leu Pro Glu Thr Gly
1 5 10 15

<210> 66

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<212> PRT

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<400> 66

Arg Ala His Ile Arg Arg Ala His Ile Arg Arg
1 5 10

<210> 67

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Asp Glu Asp Glu Asp Asp Glu Glu Asp Asp Asp Glu Glu Glu
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<210> 68

<211> 15

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<400> 68

Ser Thr Met Cys Gly Ser Thr Met Cys Gly Ser Thr Met Cys Gly
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<223> G10CatC Linker peptide

<400> 69

Gly Gly Ser Gly Gly
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<210> 70

<211> 36

<212> PRT

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<223> G10CatC Fusion peptide

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Gly Ser Lys Asn Leu Arg Arg Ile Ile Arg Lys Gly Ile His Ile Ile
20 25 30
Lys Lys Tyr Gly
35

<210> 71

<211> 36

<212> PRT

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<223> G10CatN Fusion peptide

<400> 71

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Tyr Gly Gly Gly Ser Gly Gly Ser Lys Lys His Arg Lys His Arg Lys
20 25 30
His Arg Lys His
35